

# BrightBeam<sup>®</sup>

## Forensic Laser Systems

### BrightBeam MINI Series



The BrightBeam MINI is a high power, single color forensic laser system. The systems are available with either a Green laser (4-8 Watts) or a Blue laser (8 Watts). The BrightBeam MINI is the highest power, most compact forensic laser in the world today. The MINI provides forensic professionals with expanded range and capabilities by delivering high specular brightness with dynamic zoom and power control all managed through an ergonomically designed handpiece.

As the proven standard in latent fingerprint analysis, the Green MINI, used in conjunction with complimentary chemistries, provides unmatched fluorescence and clarity for any type of fingerprint processing. The Blue MINI provides similar latent fingerprint results with many of the same chemistries but adds extended spectral range to capture a host of other evidence types, including; body fluids, documents, bones, GSR, and others. Built with the latest laser technology, the BrightBeam MINI provides a long list of standard features that make it an important and useful forensic laser tool today and for years to come.

# BrightBeam<sup>®</sup>

## MINI Series

### ADVANCED SYSTEM DESIGN

Incorporating decades of laser expertise, the BrightBeam MINI system brings together the latest technologies to achieve “state of the art” performance and reliability. Every element of the system, both internal and external, have been uniquely tailored and optimized for the forensic professional.



### COMPACT PORTABLE

The BrightBeam MINI is amazingly compact and portable and is easily transported (and stored) via a high quality Pelican case. Once removed from the transport case a fully optioned MINI tips the scales at a mere 20 lbs and is easily moved around the lab with a built in handle.



### THERMAL

Operating almost “whisper” quiet, the BrightBeam MINI utilizes processor controlled, variable speed fans to provide the optimal combination of quiet operation and cooling, ensuring the best possible user experience.

### OPTICAL

Advanced zoom optics specially coated for high power laser operation and configured to provide a homogenous and “speckle free” beam profile when used with a diffuser (30 degree supplied, 10-50 degree available).

### ELECTRICAL

An internal microprocessor monitors all the major functions of the BrightBeam MINI to ensure trouble free operation. External computer control is easily accomplished via USB and a provided GUI.

### MECHANICAL

The ruggedized system architecture combined with “field tested” components make the BrightBeam MINI a perfect fit for both lab and crime scene environments.

### INTERNAL BATTERY

The BrightBeam MINI-Blue can be equipped with an optional SMART battery system utilizing the latest Lithium-Ion technologies and delivering 2-3 hours of continuous AC-free operation at full power. (Not available with green).



### LASER SAFETY

The BrightBeam MINI is designed and built for safe operation. With a removable key and a user defined safety interlock port- the system can be easily safeguarded against unauthorized or unintended operation. The BrightBeam system should never be operated by untrained or inexperienced personnel.





## RUGGED DESIGN

Designed for field operation, the BrightBeam laser is shock and vibration tested to endure the rigors of transport and non-laboratory environments.

## ZOOM ADJUST

Intense brightness or broad area illumination is a key discriminating feature of the BrightBeam laser. Equipped with variable zoom optics the user can vary the beam size from a few inches to many feet in diameter, making close up detail work on fingerprints and enabling large area room scanning.

## ARMORED CABLE

The 5 meter ( ~16.6 feet), stainless steel "umbilical" cable provides for extended range and versatility in the lab or crime scene. The ruggedized cable and smart handpiece combination makes the BrightBeam MINI one of the best laser delivery systems in the world.



## HAND CONTROL

### INSTANT ON LASER

Energize the laser instantly with the easy to use hand controller. Touchpad allows for power control and toggling laser source on and off.

### TRIPOD MOUNT

Universal mount (threaded 1/4-20 female lug) on underside of hand piece makes for quick and easy installation on a tripod, articulating arm or other compatible hardware.

### FULL POWER ADJUST

The laser source can be controlled via the "smart" handpiece or the front panel of the base unit. The system remembers the last power setting for the laser allowing for quick setup and effective toggling on and off.



## System SPECIFICATIONS

| Model                                 | 8700G4  | 8700G8 | 8708                 |
|---------------------------------------|---|--------|----------------------|
| Laser Power (W)*                      | 4.0   | 8.0    | 8.0                  |
| Wavelength (nm)                       | 532   | 532    | 445                  |
| Bandwidth (nm)                        | 1.0   | 1.0    | 2.0                  |
| Beam Diameter (cm)                    | Adjustable from 15 to 35 @ 50 cm  |        |                      |
| Beam Quality                          | Speckle Free Illumination with diffuser   |        |                      |
| Start up time                         | 5 seconds from cold start   |        |                      |
| Cool down time                        | None  |        |                      |
| Fiber/ Cable Length                   | 5 Meters (Custom lengths available)   |        |                      |
| Battery Life                          | **  | **     | 300 minutes***       |
| System Noise Level                    | <25dB(A) for normal operation<br><57dB(A) for harsh environments (auto ramp fans) |        |                      |
| Ambient Operating Temperature (C)     | 0 to 40   |        |                      |
| Storage Temperature (C)               | -20 to +85  |        |                      |
| Relative Humidity<br>(non condensing) | 5 to 95%  |        |                      |
| Electrical Input (Vac)                | Universal 90 to 250, 100 to 350 Watts   |        |                      |
| Line Frequency (Hz)                   | 50 to 60  |        |                      |
| Size (inches)                         | 6.5 x 9 x 15.5  |        |                      |
| Weight (lbs)                          | 20  | 20     | 20 (24 with battery) |
| Laser Safety Interlock                | Removable Key and rear connector interface  |        |                      |

\* Adjustable from zero to full power via hand piece or front panel

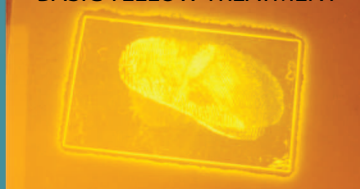
\*\* Battery pack not available for green models \*\*\* Blue Typical minimum run times at full power, continuous use.

## Sample EVIDENCE

Higher contrast and greater resolution for a wider range of evidence detection and identification:

The BrightBeam MINI Forensic Laser – Green or Blue- delivers unparalleled brightness resulting in very high fluorescence for a wide array of evidence types, including; latent fingerprints, body fluids, documents, gunshot residue, bruising, bones, etc. Designed for demanding forensic applications in the lab or field, the BrightBeam MINI is the perfect combination of size, fit, form and function

BASIC YELLOW TREATMENT



URINE BODY FLUID



Designed and manufactured by:

  
**LASER LIGHT**  
 SOLUTIONS

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